PTO/SB/21 (09-04)-

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10/550.500 **Application Number** TRANSMITTAL 09/20/2005 Filing Date **FORM** First Named Inventor Cheol Jin Lee MAY 2 5 2007 1754 Art Unit Johnson, Edward M. **Examiner Name** ed for all correspondence after initial filing) Total Number of Pages in This Submission Attorney Docket Number 035967-017 ENCLOSURES (check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Petition Appeal Communication to TC Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Terminal Disclaimer Other Enclosure(s) Extension of Time Request (please identify below): Postcard, 1449 Form (2 pgs.), 5 Pieces of Request for Refund Prior Art Express Abandonment Request CD, Number of CD(s) \_ Information Disclosure Statement ☐ Landscape Table on CD Remarks Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR1.52 or 1.53

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

THELEN REID BROWN RAYSMAN & STEINER LLP

Signature

Printed Name

Theresa A. Takeuchi

Date

05/22/2007

Reg. No. 46,941

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Signature	-\ww	arango			
Typed or printed name	Julie Arango	G	Date	05/22/2007	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**PATENT** 

Serial No.: 10/550,500

Atty. Docket No.: 035967-017

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Cheol Jin Lee

CONFIRMATION NO.:

9951

10/550,500

FILING DATE:

09/20/2005

TITLE:

MASSIVE SYNTHESIS METHOD OF DOUBLE-WALLED CARBON

NANOTUBES USING THE VAPOR PHASE GROWTH

**EXAMINER:** 

Johnson, Edward M.

ART UNIT:

1754

## **CERTIFICATE OF MAILING**

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Date: 05/22/2007

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## INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicant hereby submits this Information Disclosure Statement (IDS) including a Form PTO-1449 containing a list of references which may be material to the examination of the abovereferenced application. This submission is not to be construed as a representation that a prior art search has been conducted, that additional information material to the examination of this application does not exist, or that any one or more of the listed references constitutes prior art.

The Examiner is urged to carefully consider this Information Disclosure Statement and all the listed references, and to indicate same by initialing the appropriate portion(s) of the Form PTO-1449 and forwarding an initialed copy to applicant.

Pursuant to 37 C.F.R. § 1.98(2) legible copies of prior art references other than U.S. Patents and U.S. Patent Application Publications are attached.

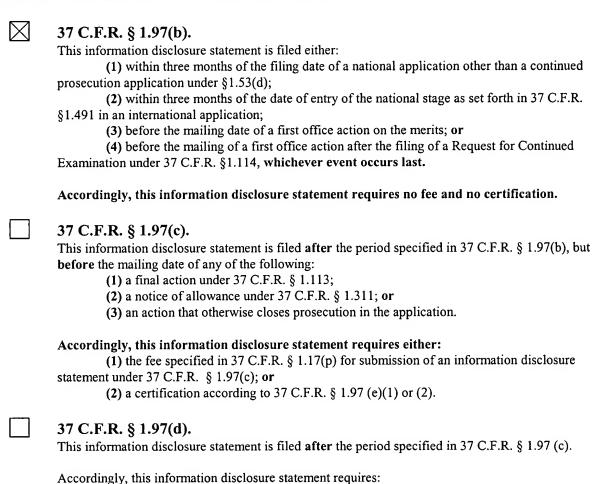
SV #294362 v1 1

PATENT

Serial No.: 10/550,500 Atty. Docket No.: 035967-017

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This statement is filed pursuant to (CHECK ONE BOX):



If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. §1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

(1) a certification in accordance with 37 C.F.R. § 1.97(e); and

(2) the fee specified in 37 C.F.R. § 1.17 (p) to consider an information disclosure

SV #294362 v1 2

statement under 37 C.F.R. § 1.97(d).

PATENT

Serial No.: 10/550,500 Atty. Docket No.: 035967-017

II

Fees Due	(CHECK ONE BOX):			
$\geq$	No fee is due.			
	The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) or 37 C.F.R. § 1.97(d) is enclosed (\$180).			
	III			
Certificati	on (CHECK ONE BOX):			
$\geq$	No certification is necessary.			
	Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned hereby certifies:  That each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.			
	Pursuant to 37 C.F.R. § 1.97(e)(2), the undersigned hereby certifies:  No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this information disclosure statement.			
	IV			
Pl	ease charge any additional required fee or credit any overpayment to our deposit			
account n	umber 50-1698.			
	Respectfully submitted, THELEN REID BROWN RAYSMAN & STEINER LLP			
Dated: <u>05</u>	Theresa A. Takeuchi Reg. No. 46,941			

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MAY 2 5 2007 Substitute for form 1449A/PTO

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Attorney Docket Number

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STATEMENT BY APPLICA	TNA

of

Complete if Known Application Number 10/550,500 09/20/2005 Filing Date First Named Inventor Cheol Jin Lee 1754 Art Unit Johnson, Edward M. Examiner Name 035967-017

(Use as many sheets as necessary) Sheet 2

1

U.S. PATENT DOCUMENTS Name of Patentee or Applicant of Document Number Publication Date Pages, Columns, Lines, Where Relevant Examiner Initials \* Cite No. Cited Document MM-DD-YYYY Passages or Relevant Number - Kind Code<sup>2</sup> (if known) Figures Appear US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-

	FOREIGN PATENT DOCUMENTS						
	Foreign Patent Document	D bracks	Name of Patentee or	Pages, Columns, Lines, Where Relevant			
Examiner Initials*	Cite No. <sup>1</sup>	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T⁵	
		JP 2002-255519	09/11/2002			X (Abstract only)	
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Examiner Signature	Date Considered	

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Substitute	for form 1449B/PTC	)	Complete if Known		
		D10	OL COLLDE	Application Number	10/550,500
INFORMATION DISCLOSURE				Filing Date	09/20/2005
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Cheol Jin Lee
				Art Unit	1754
(Use as many sheets as necessary)		Examiner Name	Johnson, Edward M.		
Sheet	2	of	2	Attorney Docket Number	035967-017

	_	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		KINGSUK MUKHOPADHYAY et al., "Bulk Production of Quasi-Aligned Carbon Nanotube Bundles by the Catalytic Chemical Vapour Deposition (CCVD) Method," Chemical Physics Letters 303, April 2, 1999, pgs. 117-124, Elsevier Science B.V.	
		"Synthesis of High-Purity Carbon Nanotubes Using Zeolite CCVD," 2002, pgs. 864-866, Vol. 72, No. 9.	х
		TATSUKI HIRAOKA et al., "Syntheses of High-Quality Double-Walled Carbon Nanotubes by the Catalytic Chemical Vapor Deposition (CCVD) Method," Abstracts The 23 <sup>rd</sup> Fullerene Nanotubes General Symposium, July 17-19, 2002, pg. 146.	
		ATSUTO OKAMOTO et al., "Synthesis and Characterization of Multi- and Single-Wall Carbon Nanotubes by the Catalytic Vapor Deposition Method," Mol. Cryst. Liq. Cryst., 2002, Vol. 387, pgs. 317-322, Taylor and Francis.	
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Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.